

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P393044

Luminaire Tested: **14EN-LD2-28-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-51)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-28-UNV-L92765-W2A-1-U (3500K)  
Description: 1X4 ENCOUNTER, 2800 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2215.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

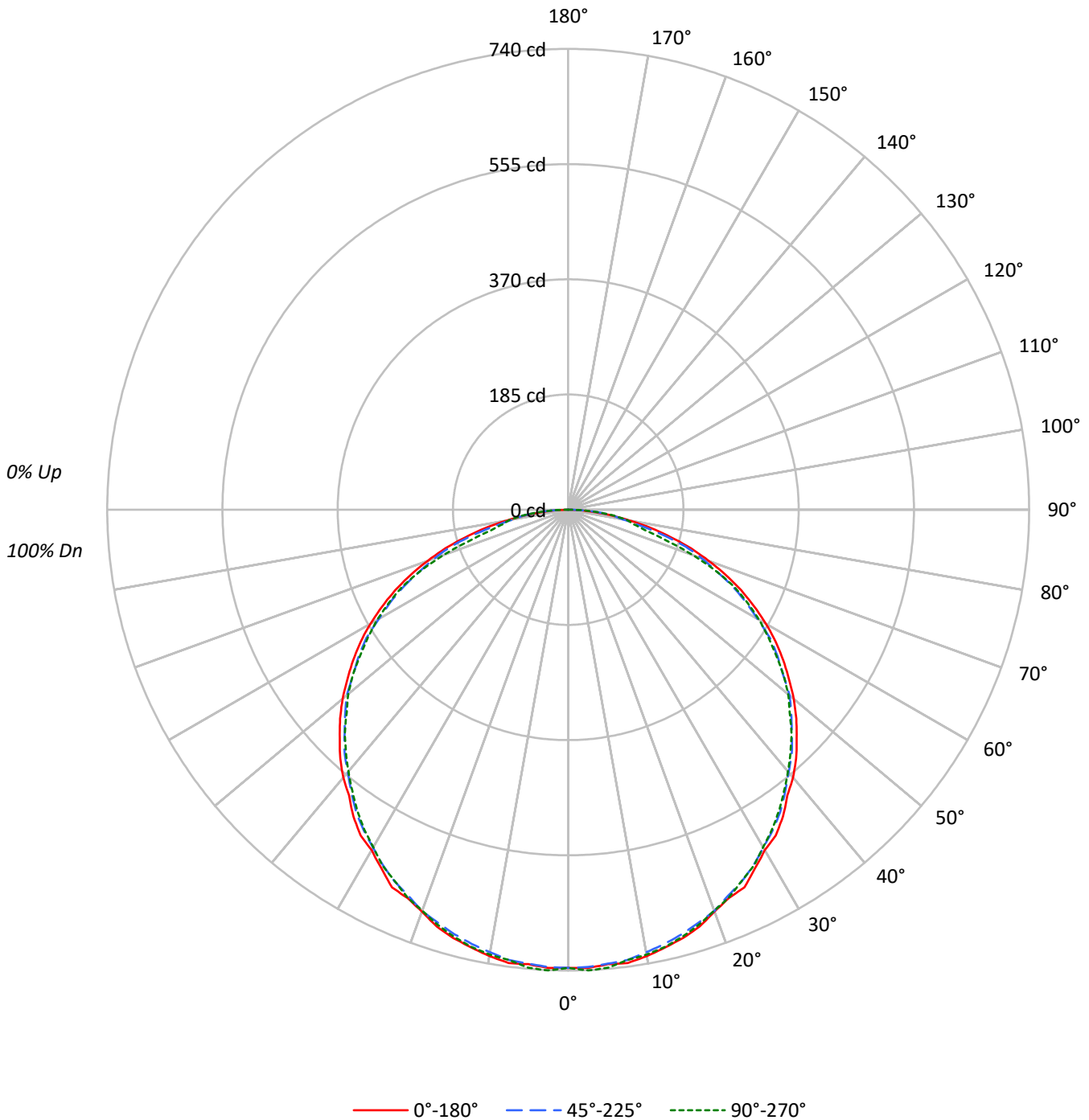
Input Watts (W): 28.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1980	1980	1980
5°	1979	1977	1994
10°	1989	1971	1982
15°	1984	1966	1977
20°	1966	1964	1962
25°	1987	1956	1954
30°	1961	1946	1944
35°	1975	1949	1938
40°	1972	1933	1928
45°	1974	1932	1929
50°	1979	1943	1930
55°	1977	1924	1910
60°	1974	1888	1905
65°	1952	1850	1876
70°	1888	1795	1676
75°	1771	1655	1334
80°	1547	1362	1485
85°	1173	1491	1491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.8	3.2
10°-20°	200.0	9.0
20°-30°	304.4	13.7
30°-40°	371.3	16.8
40°-50°	393.9	17.8
50°-60°	368.8	16.6
60°-70°	291.4	13.2
70°-80°	164.9	7.4
80°-90°	50.6	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	574.2	25.9
0°-40°	945.4	42.7
0°-60°	1708.1	77.1
0°-90°	2215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	733	733	732	736	738	70
15°	712	706	706	710	710	201
25°	669	662	659	657	658	306
35°	601	600	593	587	590	375
45°	519	516	508	505	507	401
55°	421	419	410	410	407	377
65°	306	302	291	295	295	302
75°	170	166	159	139	128	180
85°	38	41	48	48	48	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	735.7	735.7	735.7	735.7	735.7
2.5°	736.5	737.3	734.9	735.7	740.5
5°	732.6	733.3	731.8	736.5	738.1
7.5°	734.1	730.2	729.4	731.0	729.4
10°	727.8	727.0	721.5	723.1	725.4
12.5°	719.9	718.3	714.3	718.3	719.1
15°	712.0	706.4	705.6	709.6	709.6
17.5°	701.7	701.7	695.3	695.3	698.5
20°	686.6	689.0	685.8	685.8	685.0
22.5°	674.7	673.2	670.8	677.1	674.0
25°	669.2	662.1	658.9	657.3	658.1
27.5°	649.4	651.0	643.9	640.7	644.7
30°	631.2	630.4	626.4	628.0	625.6
32.5°	620.1	613.0	610.6	609.0	609.0
35°	601.1	600.3	593.2	586.8	590.0
37.5°	578.1	578.1	571.8	570.2	569.4
40°	561.5	556.0	550.4	551.2	548.8
42.5°	541.7	537.7	531.4	525.1	528.2
45°	518.7	516.4	507.6	505.3	506.9
47.5°	496.6	491.0	485.5	485.5	482.3
50°	472.8	468.0	464.1	459.3	460.9
52.5°	446.7	445.9	434.8	432.4	435.6
55°	421.3	418.9	410.2	410.2	407.1
57.5°	395.2	391.2	384.1	381.7	380.9
60°	366.7	361.9	350.8	348.5	354.0
62.5°	336.6	331.8	321.5	322.3	324.7
65°	306.5	302.5	290.6	294.6	294.6
67.5°	274.0	267.7	257.4	259.0	256.6
70°	240.0	236.0	228.1	219.4	213.0
72.5°	206.7	201.9	198.0	177.4	167.1
75°	170.3	165.5	159.2	138.6	128.3
77.5°	137.0	133.0	118.8	104.5	106.9
80°	99.8	104.5	87.9	93.5	95.8
82.5°	68.1	68.9	72.1	76.0	74.4
85°	38.0	41.2	48.3	48.3	48.3
87.5°	14.3	20.6	21.4	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)